

# Optimizing Investments in Security Countermeasures

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Jonathan Caulkins, Eric Hough, Nancy R. Mead, and Hassan Osman. *IEEE Security & Privacy*, September/October 2007.

Software engineers and businesses must make the difficult decision of how much of their budget to spend on software security mitigation for the applications and networks on which they depend. This article introduces a novel method of optimizing using integer programming (IP), the combination of security countermeasures to implement to maximize system security under fixed resources. The steps in the method and recent results with a case study client are described.

## Part "Attachment Data"

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